EMBEDTEK

Kopis 0850:
Integrated Display for Webcasting

This portable, all-in-one PC helps educators record, edit, stream and publish webcasts from remote locations. It is part of a family of rugged, long-life products serving the broadcast and education industry.

Performance Characteristics
The platforms offer multiple processor options from Intel® Atom™ to the latest Tenth-Generation Intel® processors. This provides the scalability necessary to support a range of video streaming applications, with inputs ranging from 480p to 1080p at 30 frames per second.

Ergonomics:
EmbedTek's flexible chassis design allows customization of I/O and branding, making it easy to apply in other applications. The product's compact size allows customers to specify an outer housing configuration which can be optimized for portable applications.

Regulatory/Environmental:
The platform was designed to meet exacting regulatory and environmental compliance standards, including CISPR22 and FCC Class B for radiated emissions, and MIL-STD 810F for vibration.

Lifecycle:
Seven-year availability.

Kopis 0850

EmbedTek designs, invents, and manufactures computers, software, sensors, cameras, and displays for original equipment manufacturers. Our systems improve the quality of imaging in healthcare, simulation programs in the military, video analytics in security, and much more. Throw any challenge at us, from demanding environment and ergonomic requirements to High Level Assembly and nonstandard I/O. We'll evaluate it, carefully attack it, and solve it.

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Product Realization: Kopis 0850

The OEM manufacturer of an A/V recorder and streaming device uses the system to allow multiple format video capturing and connectors, system board capabilities and augmented with application specific video capture cards.

Overall challenge:
Our customer described a quality control crisis: the existing product was exhibiting unacceptable failure levels at customer sites. This failure endangered their reputation and ongoing revenue.

Design:
Customer specified that all electronics fit within pre-existing exterior plastics and display format. Quality improvements had to work within those constraints: efforts focused on removing components where possible and simplifying layout.

Prototypes & Validation:
Production prototypes delivered in 90 days for software and field validation; product validation proceeded in parallel incorporating what we learned from field use.

Launch:
Established the integration, test, packaging, logistics, software system integration to ship directly to our OEM customers' end users. Systems were established within 4 months of award.

Production, End-of-Life:
Integration, testing, shipping, international regulatory; product shipped directly to customer end users.

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